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U.S. Department of Agriculture.

Our list of Forest, Evergreen and Ornamental Trees is not a long one. We grow the kinds we know to be hardy and valuable, and none others. We can only furnish these kinds and sizes, and at the prices named within. We have no Special Rate.

FALL 1888. —o— SPRING 1889.

WHOLESALE CATALOGUE

OF THE

WAUKEGAN NURSERIES.

R. DOUGLAS & SONS, PROPRIETORS.

WE CALL special attention to the very low prices at which we offer the within, first quality stock, and beg leave to state, to those receiving this, our catalogue, that these are our cash prices from which we allow no discount.

With our experience of over 35 years in growing Evergreens from seeds, packing and shipping millions annually, we are glad to be able to say that we ship them to arrive as safely and transplant as successfully as Apple or other deciduous trees.

Our packers are men who thoroughly understand their business, having had over twenty-five years' experience in our employ.

We would call the attention of importers to the fact that our Seedling Evergreens and Larches make a free growth the season they are transplanted, while imported trees rarely make a satisfactory growth until the second season after planting, and that ours are not so likely to be damaged on the route as trees must necessarily be kept from a free circulation of air in crossing the Atlantic.

Our Seedlings are all assorted before shipping, and only first-class plants are sent out.

We have by far the largest stock of Evergreens in America, all grown from seeds in our own Nurseries.

TERMS AND CONDITIONS.—The terms of payment must invariably *be cash*, or *satisfactory security before shipping*

When goods are ordered by express, C. O. D., one-half of the amount in cash must accompany the order.

We pack in strong, light boxes, *for which we make a moderate charge.*

No charge is made for delivering goods at Freight and Express office.

After delivering our goods to forwarders, our responsibility ceases.

When losses occur through detention or neglect *en route*, claims should be made *at once*, on the forwarders.

Any mistake of ours promptly corrected if notified within ten days from receipt of goods.

Purchasers will confer a favor by stating the manner in which they wish their goods sent, by Freight or Express; also the route from Chicago, if practicable. Write Post Office address plainly.

The articles on the following list will be furnished at annexed prices only when the quantity specified is taken, except as follows: 50 at 100 rates, 500 at 1,000 rates, etc. Rates by the 100 or 1,000, etc., will not apply when two or more articles or classes offered separately are included to make up the required number. We have by far the largest stock of Evergreens ever offered in the United States, *all* grown from seeds on our own grounds.

OUR NURSERIES are located on the western shore of Lake Michigan, thirty-five miles north of Chicago, on the Milwaukee division of the Chicago and North-western Railway, (on which there are eight passenger trains each way daily, between Chicago and Milwaukee), and in direct communication, by railroad or steamboat, with all the principal thoroughfares East and West.

Our stock is remarkably well grown, and no inferior plants will be sent out.

DESCRIPTIONS:

THE WHITE PINE is, without a doubt, the most valuable timber tree for Northern Illinois, Northern Iowa, Minnesota, Dakota, Wisconsin, Canada and the New England States. It will not grow so rapidly as the Scotch Pine the first five years, but after ten years' planting it far excels the Scotch Pine in growth.

THE SCOTCH PINE is one of the most rapid growers of all our hardy Evergreens while young, and makes an excellent wind-break for sheltering orchards, buildings, etc.

THE NORWAY SPRUCE is so well known as being one of the best Evergreens for ornamental purposes, that it is only necessary for us to say that it is also valuable for hedges and screens.

THE AMERICAN WHITE SPRUCE is far preferable to the Norway Spruce for the West, as it endures the hot, dry winds in summer and never browns in severe winters.

THE AUSTRIAN PINE.—The Black Pine of Austria was introduced into Britain in 1835, and into this country a few years later, and is decidedly a favorite in ornamental grounds. It is very hardy, symmetrical and compact, presenting a dense mass of rich, dark green foliage in winter.

THE EUROPEAN OR TYROLESE LARCH (Larix Europa) is the great timber tree of Europe, combining rapid growth with great durability and extreme hardiness.

It is also very desirable as an ornamental tree, its conical shape, regular delicate branches, and soft, light green leaves makes a striking contrast to the different varieties of European and other ornamental trees.

Four by four feet is the distance recommended for planting the Larch and other coniferous trees in forests, as, at that distance apart, they can be worked both ways with a cultivator for two or three years. The side branches will by that time shade the ground and destroy the undergrowth, and no more cultivation will be required.

The European Larch should be planted as early in spring as possible, as it commences growth at a very low temperature. If done early, no tree will stand transplanting better. It should never be planted on low, wet ground. It grows on all rich uplands and even on land too dry and poor for almost any other trees except Scotch and White Pines.

The Larch should not be planted as a forest tree south of 40 degrees. It is perfectly hardy in Minnesota, Dakota and Canada.

Prunus Serotina.—We call special attention to the Wild Black Cherry (Prunus Serotina),—one of the most rapid growers of all our valuable Northern hard wood forest trees, making lumber almost equal in value to the Black Walnut ; grows freely on any dry land, even if too poor for agricultural purposes, healthy, of upright growth, and easily transplanted.

The Russian Mulberry grows rapidly when young, and makes a good wind-break.

The European Alder is a large tree of very rapid growth, and is adapted to land too wet for other forest trees ; also grows well on dry land.

The Yellow and Canoe Birch are both valuable timber trees, perfectly hardy in Minnesota, Dakota and further north.

Fraxinus Americana.

The American White Ash is one of the most valuable and profitable trees for forest planting. The Massachusetts Board of Agriculture have offered very liberal premiums to encourage the planting of this tree within that State.

Prof. Budd, of Iowa, says: "A grove of ten acres, thinned to six feet apart, containing twelve thousand trees, at twelve years, were eight inches in diameter and thirty-five feet high, the previous thinning paying all expenses of planting and cultivation.

"Ten feet of the bodies of these trees were worth, for making bent stuff, etc., forty cents each, and the remaining top ten cents, making a tota of $6,000 as the profits of ten acres in twelve years, or a yearly profit of $50 per acre."—*Northrop's Economic Tree Planting.*

Catalpa speciosa or Western Catalpa.

We call particular attention to this valuable tree. Its hardiness has been tested up to 42 deg. north latitude. It is more upright and symmetrical in its growth and hardier than the Common Catalpa (*C. bigninoides*), which will not endure our Western winters north of 40 deg.

We have personally examined into, and found positive proof in numerous cases of this timber having stood as fence posts for a great number of years without decay. Its great durability, its tenacity of life, the ease with which it is transplanted, and its rapid growth, make it in our opinion, one of the most profitable trees for forest growth south of 42 degrees.

Common Locust.—We have examined this tree thoroughly in New Mexico, Colorado, Wyoming, Utah, Nevada and generally through the dry regions of the West, where it makes a better growth without irrigation than any other tree. It is a rapid grower, timber durable and valuable. It is entirely free from the borer in dry climates. We would recommend planting intermixed with Mulberry, the trees in plantations to stand 4 by 4 feet apart. It is not hardy in Northern Dakota and Montana.

All trees should be unpacked as soon as received from the Nursery; the trees dipped in mud about the thickness of paint, and either planted immediately, or heeled in, in a shady place till ready to plant. Be careful not to wet the foliage of Evergreen trees when puddling the roots and to keep the roots from drying till planted.

EVERGREEN TREE SEEDLINGS.

The following are very fine, stocky and well rooted, and far superior to imported trees of same age.

	Per 100	Per 1,000	Per 10,000
SPRUCE NORWAY, 4 to 6 inches	$ 60	$ 5 00	$ 40 00
" " 3 years, 6 to 9 "	75	6 00	
" WHITE, 2 " fine, 4 to 6 "	1 00	6 00	
" " 3 " 6 to 9 "	1 50	9 00	
" " 10 to 12 "	2 00	12 00	
" DOUGLAS, (Col.), 6 to 9 "	5 00		
" PUNGENS or Colorado Blue spruce, 4 to 6 inches	6 00		
" Seeds collected from bluest trees, 6 to 9 "	8 00		
PINE, WHITE, 3 years, 6 inches	1 00	8 00	
" AUSTRIAN, 2 " 4 to 6 inches	75	6 00	
" SCOTCH, 1 "		2 50	
" 2 " 4 to 6 inches	75	5 00	
" " 6 to 9 "	1 00	8 00	
" RED, 3 to 6 "	1 50	10 00	
FIR, BALSAM, 2 " 3 to 5 "	75	5 00	
" " 3 " 4 to 6 "	1 00	8 00	
ARBOR VITAE, AMERICAN, 2 years, 4 to 5 "	75	5 00	

EVERGREEN TREES.

(TRANSPLANTED.)

All thrifty, stocky, and several times transplanted.

	Per Doz.	Per 100	Per 1,000
SPRUCE, NORWAY, 3 feet	$ 3 50	$	$
" " 2 to 2½ "	2 50	15 00	120 00
" " 1½ to 2 "	2 00	12 00	
" " 12 to 15 inches	1 00	4 00	35 00
" " 8 to 12 "	30	1 50	12 00
" WHITE, 18 "	3 00		
" " 12 to 15 "	1 00	6 00	50 00
" " 8 to 10 "	75	4 00	30 00
" HEMLOCK, 18 to 24 "	3 50		
PINE, AUSTRIAN, 2 feet, stocky	3 00	20 00	
" " 1 to 1½ "	2 00	15 00	
" " 8 to 12 inches	1 00	8 00	
" SCOTCH, 1½ to 2 feet	1 50	9 00	75 00
" " 1 to 1½ "	1 00	7 00	60 00
* " MOUNTAIN (Dwarf), very stocky 12 inch	2 00	12 00	
" WHITE, 18 to 20 "	2 00	8 00	70 00
" " 12 to 15 "	1 25	6 00	50 00
FIR, BALSAM, 2 to 3 feet	3 00	20 00	
" " 8 to 12 inches	1 25	8 00	
ABIES, SIBIRICA, 6 to 12 "	2 50	15 00	
ARBOR VITAE, AMERICAN, 4 feet	4 00	30 00	
" " " 2½ to 3 "	3 00	20 00	
" " " 2 "	1 50	10 00	
" " SIBERIAN, 12 to 18 inches	3 00		
" " " 8 to 12 "	2 00		

* The Mountain Pine is a dwarf variety, making a handsome tree for lawn purposes.

We have a few hundred transplanted White Pine, more slender than trees of same variety listed above. These are suitable for belts and forest planting. We offer them at the following prices:

	Per 100	Per 1,000
White Pine, 18 to 24 inches, transplanted for belts and forest planting	$ 4 00	$ 30 00

NEW AND RARE EVERGREENS.

The Blue Spruce of Colorado, *Picea pungens*, of the botanists, varies from deep green to light and dark blue in color. They are all beautiful, valuable and perfectly hardy trees, but the blue ones are most admired.

Two of the leading Nursery firms in England have offered to take all our selected Blue ones at our own price, but the main object we had in introducing this tree, and the Douglas Spruce of Colorado, was to furnish conifers that would endure the summer drouths and winter blasts on our western prairies; we therefore offer the selected blue trees at a high price and the greener ones at a lower price than if sold without selection.

The Colorado Blue Spruce, the Douglas Spruce of Colorado, *Pseudotsuga Douglasii* (Engelm) and the White Spruce, *Picea alba* are the most ornamental and most hardy of all the spruces.

Specimen trees of these three kinds from 20 to 30 feet high, in Massachusetts, Illinois, Iowa, Kansas and Nebraska, convince us that they will stand extreme drouth in summer and extreme cold in winter better than the common so-called hardy evergreens.

	Per Pair	Per Doz.	Pr 1,000
COLORADO BLUE SPRUCE—Selected Blue...2½ feet	$ 5 00	$ 24 00	$
" " " " " ...2 "	4 00	18 00	
" " " " " 1 to ½ "	2 50	12 00	
" " " Stocky, not selected for color. .....2½ "	1 50	6 00	40 00
" " " " ..... 2 "	1 00	5 00	30 00
" " " " 18 to 20 inches	75	4 00	25 00
" " " " 1 foot	60	3 00	15 00
" " " " 6 to 12 inches		2 00	12 00
DOUGLAS SPRUCE OF COLORADO,.....3 to 4 feet	2 00	9 00	
" " " " ..... 3 "	1 50	6 00	50 00
" " " " .....2 to 2½ "	1 00	5 00	40 00
" " " " ..... 15 to 20 inches	75	4 00	30 00
ARBOR VITAE GOLDEN, (Douglas's).....3 feet	1 50	6 00	
" " " " ....12 to 18 inches		3 00	
" " PYRAMIDALIS " .....12 to 18 "		5 00	
" " LITTLE GEM "	1 50	5 00	
RETINISPORA—GOLDEN, 12 inches	1 50	5 00	

Golden trees should be planted in full sunlight.

FOREST AND ORNAMENTAL TREES.

	Pr Doz	Pr 100	Pr 1,000	Pr 10,000
WHITE ASH, 2 year,.....18 to 24 inches		$ 75	$ 4 50	
" " 1 " first-class		50	3 50	
GREEN ASH, 1 " first class		50	3 50	$ 30 00
BOX ELDER, 1 "		50	3 50	30 00
SOFT MAPLE, 1 "		50	3 50	30 00
CATALPA SPECIOSA, 1 year strong		50	4 00	35 00
" " Transplanted....6 to 7 feet	2 50	10 00		
EUROPEAN LARCH.....18 to 24 inches transplanted		2 50	18 00	
" " .....12 to 15 " "		2 00	12 00	
" " .....1 year		75	5 00	
EUROPEAN WHITE BIRCH.....18 to 24 inches		1 50	10 00	
" " .....12 to 15 "		1 00	6 00	
" " " 1 year... 6 to 9 "		50	4 00	
YELLOW BIRCH,.....12 to 18 "		1 00		
CANOE BIRCH,.....18 to 24 "		1 00		
" " .....12 to 18 "		75		
EUROPEAN ALDER,.....18 to 24 "		75	6 00	
WILD BLACK CHERRY,..2 year,.... 2 to 3 feet		2 00		
" " .....12 to 18 inches		1 00	7 00	
" " " .....6 to 12 "		75	4 00	
RUSSIAN MULBERRY,....1 year		50	4 00	
EUROPEAN MOUNTAIN ASH, 1 year, 6 to 12 inch		75	6 00	
AMERICAN LINDEN,..... 6 to 10 "		1 00		
COMMON LOCUST,..... 1 to 2 feet		50	3 50	
WHITE ELM,..... 10 to 15 inches		75	4 00	
" " .....8 to 10 "		50	3 00	
NORWAY MAPLE, ...2 to 3½ feet	1 00	6 00		
HORSE CHESTNUT,.....1 year	50	3 00		

Directions for Sowing Evergreen Seeds.

Sow Evergreen seeds broadcast in beds 4 feet wide, light, sandy loam, cover very lightly. Shade the beds from the sun for the first year, either with lath frames or brush. The seeds are sown dry. The beds must be carefully hand-weeded the first and second years. The seedlings are then of proper size to be thinned out of the beds and planted in nursery.

Deciduous Tree Seeds.

Ash, Hard Maple, Box Elder, Black Cherry, etc., are better kept in moist sand during winter and sown in early spring. Catalpa, Birch and Ailanthus are kept dry in winter and sown in spring. Hard shelled seed, like the Locust, should be soaked in hot water before sowing in spring. Soft Maple and Elm should be sown as soon as ripe in May or early June. All the above except Catalpa, Ailanthus and Locust are better sown early, or as soon as the ground is in condition in spring.

EVERGREEN TREE SEEDS.

	Per oz.	Per lb.
Abies, alba, White Spruce	$ 50	$ 5 00
Abies excelsa, Norway	25	1 50
Picea balsamea, Balsam Fir	25	1 50
Pinus Austriaca, Austrian Pine	25	1 50
Pinus strobus, White Pine	30	2 50
Pinus sylvestris, Scotch Pine		1 50
Juniperus virginiona, Red Cedar		75
Juniperus prostrata, Prostrate Juniper		75
Juniperus Waukegan Trailing		75
Thuya occidentalis, Am. Arbor Vitæ	40	4 00
Colorado Blue Spruce, from Bluest Trees		12 00
Abies concolor, from Colorado		10 00

DECIDUOUS TREE SEEDS.

	Per oz	Per lb.
Acer platanoides, Norway Maple	$ 25	$ 1 50
Acer saccharinum, Sugar Maple	25	1 50
Acer negundo, Box Elder, per bushel $3 50	25	1 50
European White Birch	30	2 00
Yellow Birch	30	2 00
Papyracæ, Canoe Birch	30	2 00
Catalpa speciosa, Western or Hardy Catalpa	25	1 50
Fraxinus alba, White Ash, per bbl $8 00	25	1 00
Fraxinus viridis, Green Ash, per bbl. $8.00	25	1 00
Russian Mulberry		4 00
Larix Europa, European Larch	25	1 25
Prunus serotina, Wild Black Cherry	15	1 50
Robinia Pseudo-Acacia, Yellow Locust	25	75
Pyrus Acuparia, European Mountain Ash		50

Forest Trees By Mail.

Our experience, made the last eight years, of sending dollar packages of the best Forest and Ornamental Tree Seedlings, postpaid, met with such success and so many encomiums from every part of the country, that we shall in future devote special attention to this business. The postage on each package and the labor of packing them costs nearly fifty cents, so the direct profits of this business are very small; but then, when a man once begins planting trees he is sure to keep on doing so, and we hope by placing good trees in small quantities, and at cheap rates

within the reach of all, to build up among the farmers in every part of the country the habit of planting every year a hundred or more trees, and of considering tree-planting a part of their regular farm work.

These trees reach their destination in any part of this country in as good condition as when leaving the nursery. We now send small packages of Evergreen trees, by mail, to Europe in perfect order, and have sent Catalpa trees to the East Indies, 400 miles inland from Calcutta, that all lived and were in leaf ten days from time of planting.

WE OFFER THE FOLLOWING PACKAGES BY MAIL, POSTPAID, FOR $1.00 PER PACKAGE.

Our mail packages are made up of the number set opposite each kind, and we never divide the packages, nor put more than one kind in each $1.00 packages.

No. 1.—100 European Larch, 1 year.
" 2.—100 White Ash, 10 to 12 inches.
" 3.—100 Green Ash, 10 to 12 inches.
" 4.—100 Hardy Catalpa, (Catalpa speciosa), 10 to 12 inches
" 5.—100 White Elm, 1 year.
" 6.— 75 European Mountin Ash, 1 year.
" 7.— 75 Wild Black Cherry, 10 to 12 ins.
" 8.—100 European Alder, 1 year.
" 9.—100 Yellow Birch, 2 years.
" 10.—100 Canoe Birch, 2 years.
" 11.—100 European White Birch, 1 year.
No 12.—100 Russian Mulberry, 1 year.
" 13.—100 Norway Spruce, 4 to 6 inches.
" 14.— 50 White Spruce, 4 to 6 inches.
" 15.—100 Am. Arbor Vitæ, 3 to 5 inches.
" 16.— 50 Balsam Fir, 3 years.
" 17.— 75 White Pine, 3 years.
" 18.—100 Austrian Pine, 3 to 5 inches.
" 19.—100 Scotch Pine, 4 to 6 inches.
" 20.—75 Am. Linden, 1 year.
" 21.—100 Box Elder, 1 year.
" 22.—100 Soft Maple, 1 year.

To Our California Patrons:

One of our firm will be permanently located at Garvanza, Los Angeles Co., California, where orders will be received, catalogues furnished, and letters of inquiry answered, etc.

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